

ABSTRACT

A reference voltage is generated between a first node and a second node. A
5 resistive element and a junction device are coupled in series between the first node and
the second node. The junction device includes a junction between dissimilar materials,
and has a negative temperature coefficient. First and second current sources route
respective first and second bias currents to the resistive element and to the junction
device. Routing is such that a resulting first branch current through the resistive element
10 is generally not equal to a resulting second branch current through the junction device.
The second bias current depends less on manufacturing process variation than the first
bias current, and the second branch current can contain more of it, for less dependence on
process. The second bias current can be generated by a source that uses the generated
reference voltage as a reference.

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